

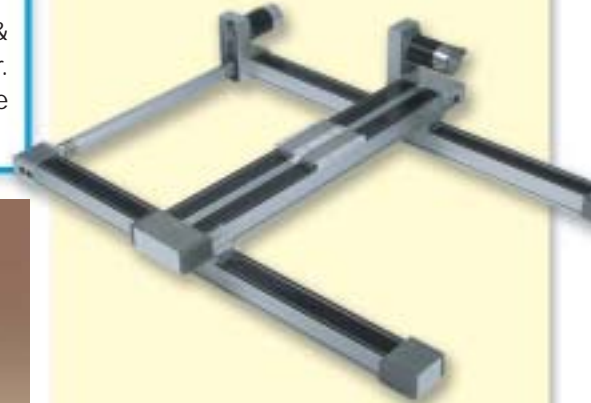
PRECISION PRODUCTS

for Industry

News from R. A. Rodriguez

Welcome to the first issue of **PRECISION PRODUCTS FOR INDUSTRY**. Its aim is to keep you informed of new product additions and their application. Our range of products is now quite extensive and growing all the time. Did you know for example that we now have five product divisions within the company - Bearing Products, Linear Products, Aerospace Products, Conveyor Products & Gears and Allied Products. You'll find news from each of them in this newsletter. And should you need further information, visit our website or tick the appropriate box on the back page and fax it to us. [Happy reading!](#)

MODULAR HANDLING



Mars Explorer

For the Mars Explorer Rover vehicle, its designers needed bearings whose performance was literally, out-of-this-world! They had to survive sub-zero temperatures on Mars and withstand the tremendous shock and vibration loads of the probe's launch phase.

Customised Reali-Slim® bearings have proven equal to the task. These compact bearings combine low weight and space savings with the

reliable, precise performance needed to position the Rover's camera accurately during pan and tilt functions.

These same attributes make Reali-Slim ideal for a wide range of mission-critical applications.

Contact our sales office for more information. ①

Kaydon Reali-Slim™ bearings are now supplied in metric as well as Imperial - we now hold more than 400 sizes in stock



New linear motion modules from Werner are designed to be freely combined enabling you to create dedicated, multi-axes handling systems. They offer high loading capacity, high rigidity, quiet operation and are complemented by a wide choice of motors, plug-in position systems and controllers.

We have introduced three new basic modules. All are made from extruded aluminium section with high torsional strength and driven by a wide, wire reinforced toothed belt. The design ensures the guiding profile is protected against external forces.

Under the Werner banner we can also supply linear guideways and cross tables, stepper and servo motor driven systems through to complete special purpose machines and production lines. Fully programmable, 3-axis controllers complete the package. The Domi-Assembly is a typical example of what we can achieve with this comprehensive linear motion system.



Based on Werner's Domiline range of linear slides, this assembly is tailored to individual requirements and delivered ready for system integration.

③

MORE LINEAR OPTIONS



Linear motion is a technology sector in which we have considerable experience. And with the addition of Speedy Rail® to our portfolio we are now able to offer a range of solutions.

Designed and manufactured by TMT, the Speedy Rail beam is an extruded aluminium alloy profile which is surface hardened and given a patented finishing treatment. This provides a smooth, hard surface comparable to tempered steel.

A key attribute of this product is that its non-stick surface layer offers excellent resistance to weld splatter. Speedy Rail is therefore ideally suited to the automotive sector where it has found a niche as the basis of lift and carry transfer lines.

②

COMPRESSION WAVE SPRINGS



Compared with conventional springs or wavy washers, our Spirolox Compact Wave Springs save you space and provide more precise load deflection characteristics.

Three series complete the range - the TR Single Turn Standard, the TB Single Turn Bearing Pre-load and the CM Multi-Turn. A new CD-ROM details the technical merits of all three, allowing you to select the appropriate series to achieve their required performance in the minimum space. ④

AEROSPACE



For more than 30 years, R. A. Rodriguez has been providing full engineering support to aerospace companies. Indeed our aerospace products are fitted to almost all military and civil aircraft in the Western World including many spacecraft. They are also used in many other leading edge technologies such as optical sighting systems, laser range-finding, semiconductor production and medical scanning equipment. ⑤

DIRT OUT, LUBRICATION IN

Thanks to a new optionally available back seal, the Greenlign plastic bearing housings promise an even longer working life than ever. In combination with the standard end cover, this new addition ensures lubrication is conserved and the ingress of dirt eliminated.



Ideal for hygiene-conscious applications in the food, pharmaceutical and process industries, the Greenlign housings are fitted as standard with stainless steel insert bearings. For housings with Nylube self-lubricating cast nylon insert bearings, ask for our Redlign range. ⑥

ULTRA-SLIM® GUIDE



Thanks to our newly published Ultra-Slim® Bearing Guide, designers can quickly select bearings with the exact bore size, capacity and load limits to suit their application.

Ultra-Slim bearings have a 2.5mm square cross section allowing them to be used in the smallest, most confined design envelopes. Standard bore sizes range from 35mm to 170mm. The bearings are fabricated from stainless steel for corrosion resistance.

Also available are hybrid bearings with ceramic balls for applications in harsh environments. ⑦



Compact in design and able to carry high axial loads in both directions in combination with radial loads and high tilting moments, our UNITEC crossed roller bearings are ideal for machine tool applications where space is limited.

These bearings are now available in the UK together with a new range of combined axial-radial bearings for ballscrews. They are supplied in a choice of sizes and rotational accuracies to suit the application.

In addition to precision bearings for machine tools we can also provide specific bearings for screw extruders, textile and paper converting machinery, printing machines, rolling mills and steel production. ⑧

NEW GEAR LINES

The introduction of the new Sintered Metal Spur Gears to our KHK range allows us to offer smaller sizes previously only available in plastic. Indeed these products are complementary to our injection-moulded range and both can be mixed and matched to meet higher torque requirements.

For sintered products, these are classed as high precision and as they are also oil impregnated, a long operating life is assured.

Also new are the Failoc Hub Acetal Spur Gears which benefit from an integral stainless steel hub with locking mechanism. ⑨



376 pages of stock gears - ask for your copy today

High ratio hypoid gears are now available from us, ex-stock. This includes the MHP range, able to produce an exceptional speed reduction of 200:1 in a single pass.

EFFICIENT TAKE-UP...



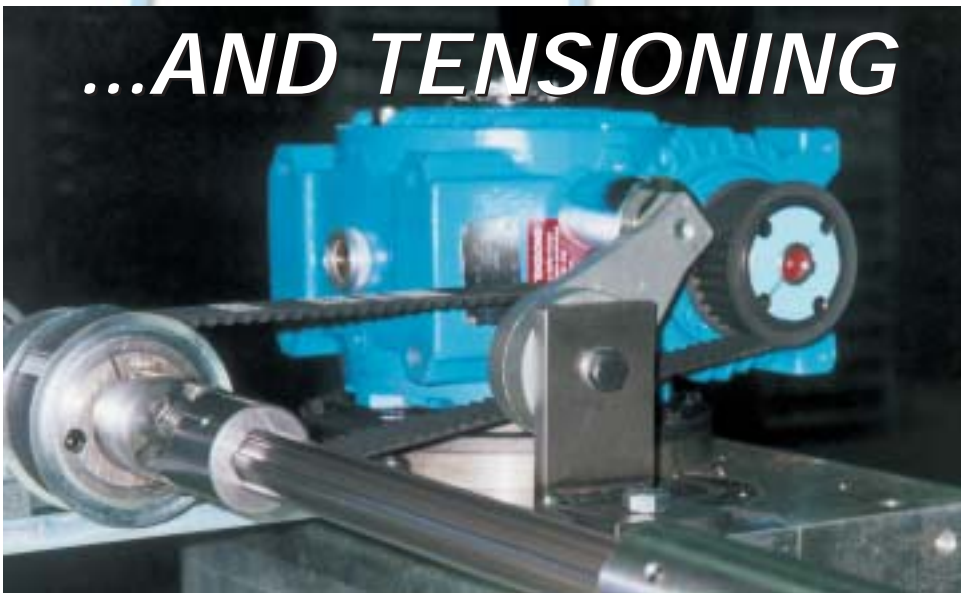
Our Bryant Telescoper™ take-ups provide several distinct advantages over conventional alternatives and are widely specified by conveyor manufacturers. They have an easy four-bolt assembly, use standard pillow block bearings and require a short conveyor bed.

Recently introduced in the UK is Bryant's wide range of conveyor rollers including the low cost, yet high quality Teletrack™ tapered

rollers. Thanks to Bryant's new AirForm™ CNC forming process, these rollers provide excellent concentricity, true taper and bearing pocket accuracy.

A wide range of diameters, lengths and tapered angles may be specified, with or without drive grooves. And in addition to tube shells, completely assembled tapered rollers are available. 10

...AND TENSIONING



Also available from our Conveyor Products Division are Zetasassi high quality tensioning devices and overload clutches. Variants include manual and automatic, adjustable and belt tensioners and manual swivelling chain and belt tensioners; nine models of safety clutches for torque up to

1400 Nm are also available.

Not only does Zetasassi compete with its few competitors on quality, its products are also attractively priced. They are exceptionally good value-for-money and already proving immensely popular across a wide spectrum of industry sectors. 11

MOTION CONTROL



Having our own range of linear components gives us yet another string to our bow. These include linear guideways, ball bushings, bearing housings, shaft supports and shaft blocks. And naturally we can use all these elements to create complete assemblies.

The latest additions to the R. A. Rodriguez range are ballscrews and acmescrews. These are ideal for a wide range of design needs from slow transporting and clamping applications through to those requiring precision and dynamic positioning. Both are available ex-factory in metric and inch sizes.

We offer the most popular combinations of ballscrew diameter and pitch in two quality grades. Screw diameters may be specified from 8mm to 160mm. The programme provides low backlash nuts for standard operation and pre-loaded nuts for greater precision.

For less demanding applications, our acmescrew series comprises 20 models with pitches from 2 to 16. 12



Now available ex-stock is Kaydon's RK series of slewing rings. These single row four-point contact ball bearings offer high performance and reduced weight. They are ideal for turnstile, turntable, transfer line and materials handling applications. 13

FAX BACK LITERATURE REQUEST

For literature or further information on our products, please tick the appropriate box and fax this page back to us on:-

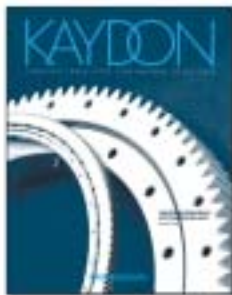
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Real-Slim Bearings



Ultra-Slim Bearings



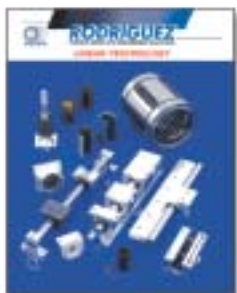
Turntable Bearings



Retaining Rings



Wave Springs



Linear Ball Bushings Shafts & Accessories



Linear Guideways



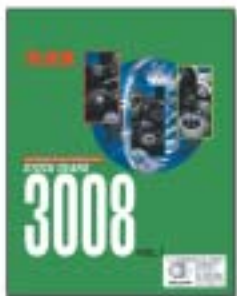
Linear Guide Rails



Linear X-Y-Z Modules & Position Controllers



Linear Slides & Accessories



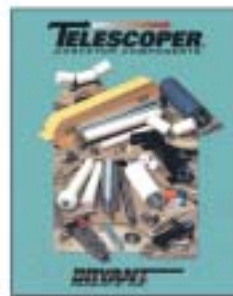
High Quality Stock Gears



Plastic & Stainless Bearing Housing Units



High Precision Machine Tool Bearings



Conveyor Tensioners Rollers & Accessories



Chain & Belt Tensioners

Or Article Number:

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Name:

Position:

Company:

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